

# *Aerial Services Inc.*



Brief Overview of NAIP 2004  
Participation

# Team ASI – Photo Acquisition

- ◆ ASI – Project Lead (1 aircraft)
  - AirLand Surveys: Flint, MI (1 aircraft)
  - GRW Aerial Survey Inc: Lexington, KY (1 aircraft)
  - Western AirMaps, Inc: Overland Park, KS (1 aircraft)

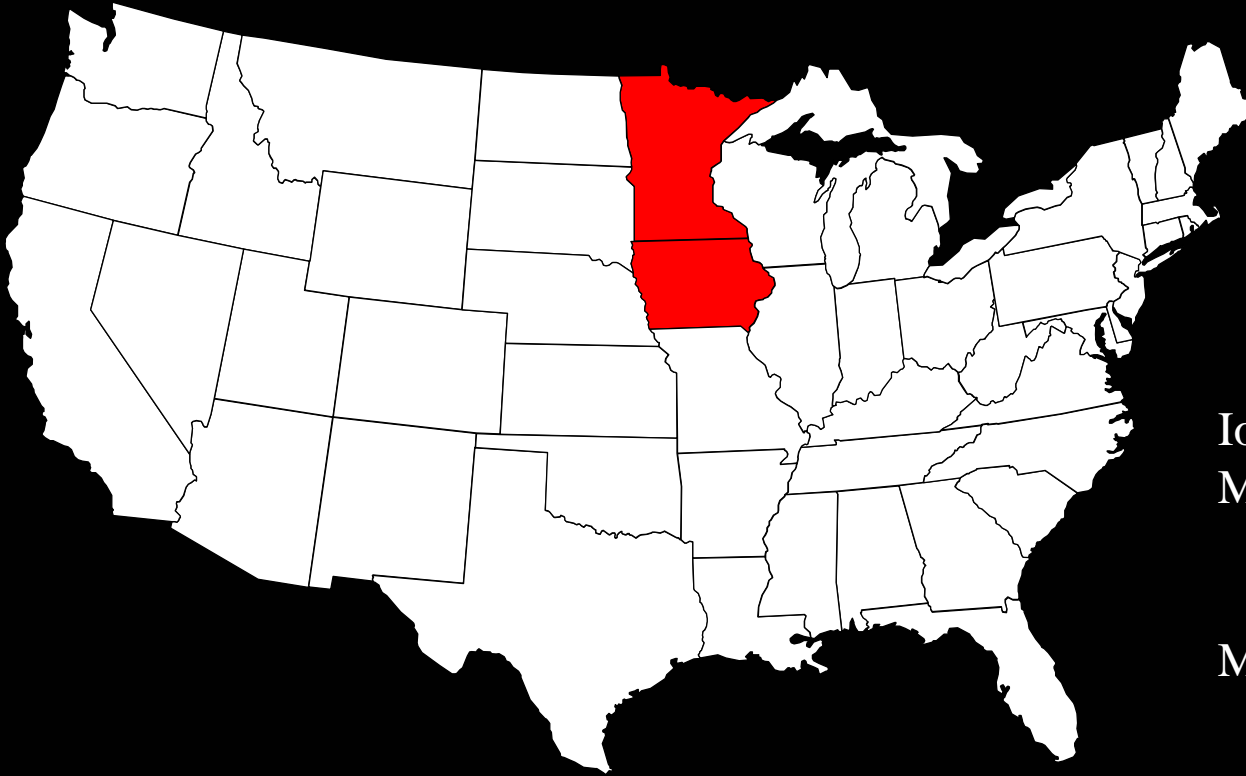
# Team ASI: Scanning

- ASI – Project Lead
  - ◆ GRW Aerial Survey, Inc.
  - ◆ Pinnacle Mapping Technologies, Inc.
  - ◆ Williams Aerial Mapping

# Team ASI: Ortho Production

- ASI – Project Lead
  - ◆ GRW Aerial Survey, Inc.
  - ◆ Pinnacle Mapping Technologies, Inc.

# NAIP 2004 Project Area



2 meter  
Iowa: 4181 DOQQ  
Minnesota: 5889 DOQQ

1 meter  
Minnesota: 413 DOQQ

# Time Line of Start

- May 19: Counter Proposal Accepted
- May 26: Post Award Telephone Conference  
between APFO and all Contractors
- May 28: Official Notice of Award
- June 10-11: ASI Training Workshop
- June 20: Deployment of Crews to Minnesota

# Designated Fly Windows

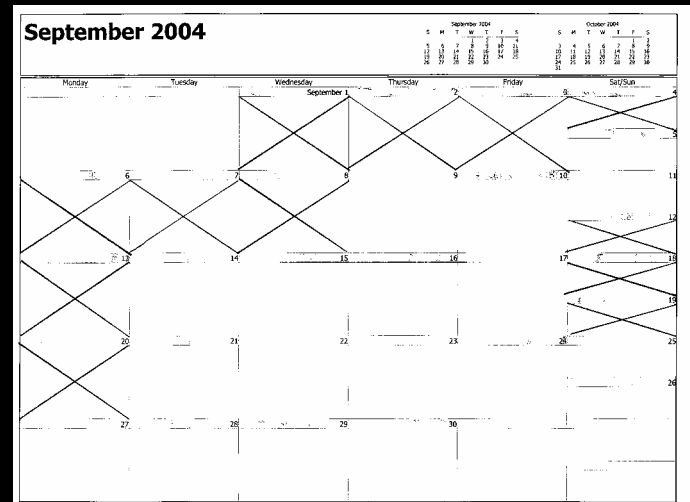
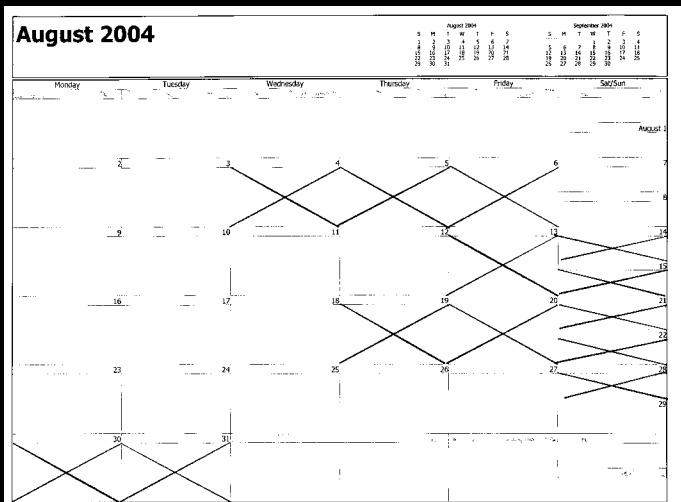
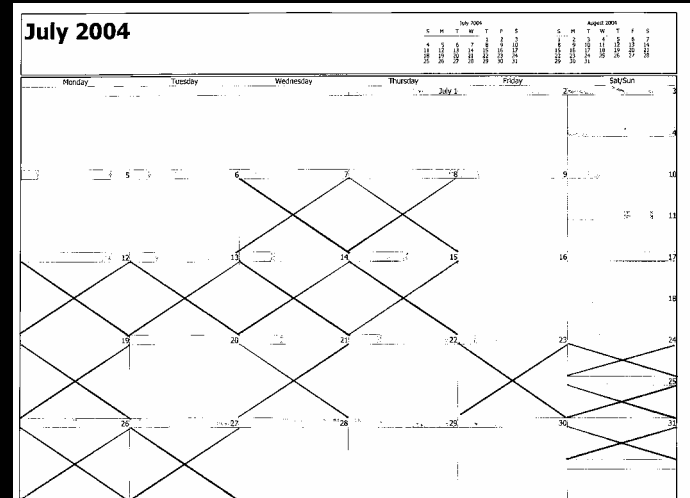
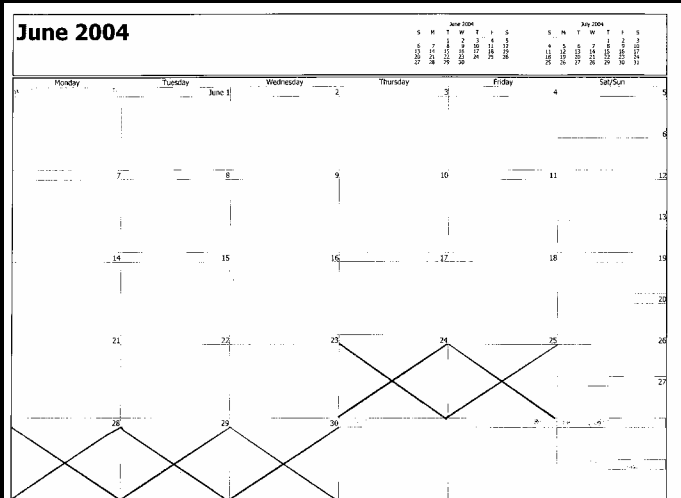
- Iowa:

- ◆ 2 meter: 6/20 thru 9/15 (delayed start – standing flood water)
  - First Date of Actual Capture: 6-30-04
  - Last Date of Actual Capture: 9-20-04
    - (Finished before 9-15 and reflew 1 bad frame on 9-20)

- Minnesota:

- ◆ 1 meter: 6/1 thru 8/31
- ◆ 2 meter: 6/20 thru 8/31
  - First Date of Actual Capture: 6-24-04
  - Last Date of Actual Capture: 9-19-04
    - Extensions weather related

# Flight Dates in IA and/or MN





# Photo Acquisition: Daily Maximums

Year	Maximum # of Miles Flown in one day by one aircraft	Maximum # of Exposures Flown in one day by one aircraft	Number of DOQQ's Covered
2004	1,488	689	344
2003	1,244	576	288

# Photo Acquisition: Daily Averages

Year	Avg # of Exposures Flown per day/per aircraft	Avg # of DOQQ Covered per day/per aircraft	Avg # of Miles: per day/per aircraft
2004	236	118	510
2003	206	103	445

# Number of Days Flown

Year	Total # of Days from start of flight to finish: IA and MN	Avg. # of Days flown per aircraft	% of Available Days Successful Flights Occurred
2004	88	23	26%
2003	94	26	27%

# Team ASI Averages for Season

Year	Average Exposures per Aircraft per Season	Average DOQQ's per Aircraft per Season	Average # of Miles per Aircraft per Season
2004	5,560	2,780	12,010
2003	5,297	2,649	11,442

# Photo Acquisition Problems

- Iowa:
  - ◆ 2 week delay in start
    - Flooding in Iowa – delay at USDA request
- 2 Aircraft Grounded by FAA (7 weeks)
- Vacuum problem with sub-contractor camera (out for 2 weeks)
- Airspace Problems:
  - Presidential TFR's:
  - Restricted Areas caused delays in Northern MN
  - Letter from USDA helped but not in Military Space
    - References to Department of Defense and Homeland Security opens many doors
  - Scheduling Problems w/Snoopy and Beaver MOAs
    - Actual active area much greater than published (50,000') Unpublished MOA extensions vertically and laterally were unknown until day of acquisition.
- Weather in Minnesota
  - Canada and Alaska fires: Haze in North (1-2 week delay June)

# Production

- Database
  - ◆ Improved capabilities within our own database
  - ◆ Track output to Sub-contractors

# Production

- Scanning:
  - ◆ Multiple site locations used base scans to match
  - ◆ Capacity used 60-75%
  - ◆ FTP site and USB Hard Drives used to share data between ASI and Sub-contractors

# Production

- Analytics
  - ◆ Used 50% of ASI analytic capacity
  - ◆ Data pulled from sub-contractors and completed by ASI



# Production

- Orthorectification

- ◆ ASI capacity was under utilized due to contracts with sub-consultants
- ◆ Mosaicking and tonal balancing of data from multiple sites - few problems due to workshop

# Discussion Topics with USDA

- Payment Schedule
  - ◆ Monthly billings as deliverables are accepted vs entire state

# Suggestions

- Status of deliverables on web site by color
  - ◆ Received
  - ◆ Accepted

# Questions - Discussion

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